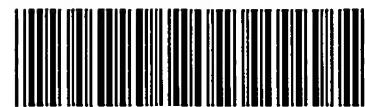


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/572,195
Source: IFWP
Date Processed by STIC: 7/6/06

ENTERED



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/572,195

DATE: 04/06/2006

TIME: 10:54:17

Input Set : A:\PCT - Sequence listing for submission.txt1.TXT
 Output Set: N:\CRF4\04062006\J572195.raw

3 <110> APPLICANT: PERFORMANCE GENOMICS, INC.
 5 <120> TITLE OF INVENTION: Insulin-Like Growth Factor-1 Receptor (IGF-1R) Polymorphic
 6 Alleles and Use of the Same to Identify DNA Markers for
 7 Reproductive Longevity
 9 <130> FILE REFERENCE: 31649-2137
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/572,195
 C--> 12 <141> CURRENT FILING DATE: 2006-03-15
 12 <150> PRIOR APPLICATION NUMBER: US 10/662,613
 13 <151> PRIOR FILING DATE: 2003-09-15
 16 <160> NUMBER OF SEQ ID NOS: 22
 18 <170> SOFTWARE: PatentIn version 3.2
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 4500
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Mus musculus
 25 <400> SEQUENCE: 1
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 28 gccgcgcctct ctctctggcc gacgagtggaa gaaatctgtg ggcccgccat tgacatccgc 120
 30 aacgactatac agcagctgaa ggcgcctggaa aactgcacgg tgatcgaggg cttcctccac 180
 32 atccgtctca tctccaaggc cgaggactac cgaagctacc gcttcccaa gctcaccgtc 240
 34 atcaactgagt acttgctgct ctcccgagtc gctggcctcg agagcctggg agacactttc 300
 36 cccaaacctca cagtcatccg tggctggaaa ctcttctaca actacgcact ggtcatcttc 360
 38 gagatgacca atctcaagga tattgggctt tataatctga ggaacattac tcggggggcc 420
 40 atcaggattg agaagaacgc cgacctctgt tacctctcca ccatagactg gtctctcatc 480
 42 ttggatgcgg tgcataataa ctacattgtg gggacaacaagc ccccgaaagga atgtggggac 540
 44 ctgtgtccag ggacatttggaa ggagaagccc atgtgtgaga agaccaccaat caacaatgag 600
 46 tacaactacc gctgctggac cacaatcgc tgccagaaaa tgcgtcccaag tgcgtgcggg 660
 48 aagcgagcct gcaccgagaa caacgagtgc tgccacccgg agtgcctgg cagctgccac 720
 50 acacccggacg acaacacaac ctgcgtggcc tgcagacact actactacaa aggctgtgt 780
 52 gtgcctgcct gcccgcctgg cacctacagg ttgcagggtt ggcgcgtgtt ggatcgcgat 840
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 56 gatgagtgca tgcaggagtg tccctcaggc ttcatccgca acagcaccca gagcatgtac 960
 58 tgtatccccct gcgaaaggccc ctgcctccaaa gtctgcggcg atgaagagaa gaaaacgaaa 1020
 60 accatcgatt cggtgacttc tgctcaaatg ctccaaggat gcaccatcct gaaggggcaat 1080
 62 ctgcttatta acatccggag aggcaataac attgcctcg agttggagaa ttcatgggg 1140
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 66 tccttcctga agaaccttcg ttcatctta ggagaggagc agctggaaagg gaactactcc 1260
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 76 acctggaaaga accgaatcat cataacgtgg caccgttacc ggcggccgaa ctaccggat 1560
 78 ctcatcagct tcacagtttta ctacaaggag gcaccattta aaaacgttac ggaatatgac 1620

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84	tatgtcaagg	ctgtgaccct	caccatggtg	gaaaacgacc	atatccgtgg	ggccaaaagt	1800		
86	gaaatcttgt	acattcgac	caatgcttca	gtcccttcca	ttcccttaga	tgtccctca	1860		
88	gcatcaaact	cttcctctca	gctgattgtg	aagtggaaatc	ctccaaactct	gcccaatgg	1920		
90	aacttgagtt	actacattgt	gaggtggcag	cggcagcccc	aggatggta	cctgtaccgg	1980		
92	cacaactact	gctccaaaga	caaatacc	atcagaaagt	acgcccgtt	taccatcgac	2040		
94	gtggaggagg	tgacggaaaa	tcccaagaca	gaagtgtgt	gtgggtataa	agggccatgc	2100		
96	tgcgcttgcc	ctaaaactga	agctgagaag	caggctgaga	aggaggag	tgagttaccgt	2160		
98	aaagtctttg	agaatttcct	tcacaattcc	atcttgc	ccaggcccc	aaggaggcgg	2220		
100	agagacgtca	tgcaagtggc	caacacgacc	atgtccagcc	gaagcaggaa	caccacggta	2280		
102	gctgacac	acaatatac	agacccggag	gagttcgaga	cagagtaccc	tttctttgag	2340		
104	agcagagtgg	ataacaagg	gaggactgtc	atcttcaacc	tccggcc	cactctgtac	2400		
106	cgcatacgata	tccacagctg	caaccacgag	gctgagaagc	tgggctgcag	cgcccttcaac	2460		
108	ttcgtctttg	cgagaaccat	gccagcagaa	ggagccatg	atatccctgg	tccggtgacc	2520		
110	tgggagccaa	gacccggaaaa	ctccatctt	ttaaagtggc	cagaacc	gaaccccaac	2580		
112	ggattgtatcc	taatgtatga	aattaaatac	gggtcgcaag	tcgaggatca	gcggaaatgt	2640		
114	gtgtccagac	aggagtacag	gaagtacgga	ggggccaaac	tcaaccgtt	aaacccaggg	2700		
116	aactatacag	cccgattca	ggcttac	ctcttgg	atgggtcatg	gacagatcct	2760		
118	gtgttcttct	atgtccccgc	caaaacgac	tatgagaact	tcatgc	tatgtct	2820		
120	ctgcccgtt	ccatctgt	gatgttgg	gggctgg	tcatgt	tgtctccat	2880		
122	agaaagagaa	ataacagcag	gttggcaat	ggagtgt	atgttctgt	gaaccccgag	2940		
124	tat	tatcg	cagctgatgt	gtacgtgc	gatgttgg	aggtagctg	agagaagatc	3000	
126	accatgaacc	gggagctcg	acaagggtcc	tttgggatgg	tctatgaa	agtggcaag	3060		
128	gtgtggta	aggatgaacc	cgaaacc	gtggccat	agacggtaaa	cgaggctgc	3120		
130	agtatgcgt	aaagaatcga	gtttctca	gaggcctcg	tatgtaa	gttcaattgt	3180		
132	caccatgtgg	tccgggt	gggtgtgg	tcccaagg	agcccac	gttcatcat	3240		
134	gaactaatga	cacgcgt	tctcaaa	at	tatctccgt	ctctgag	agaagtggag	3300	
136	cagaataatc	tagtccat	tcctccg	gac	ttaagcaaga	tatccat	ggctggagag	3360	
138	atgcagat	gcatggc	cctcaat	gaa	acaagttc	tccacag	gaga	3420	
140	aggaactgca	tggtagcc	agat	ttcaca	gtcaaaattt	gagatttgc	tatgacac	3480	
142	gacatctac	agacggact	ctacc	gggaa	ggcgggaa	gttgc	tgtgcgtt	3540	
144	atgtctcc	agtcc	cata	ggatgg	gtc	ttactact	attctgtat	ctgtcc	3600
146	ggggcgtc	tctgg	gagat	cgcc	acgtc	gagc	cctaccagg	cttg	3660
148	gagcaagttc	ttcg	ttcgt	catgg	ggc	cttgc	acaagcc	caact	3720
150	gatatgtgt	ttga	acttat	g	gc	catgt	tttca	accc	3780
152	ttcctggaga	tcat	ccgg	cag	at	caagg	ccagtt	tttca	3840
154	ttctactaca	gcg	aggag	aa	caag	cct	gagg	at	3900
156	atggagc	ctg	aga	acat	gg	at	ccgc	cc	3960
158	cctctgc	ctg	aa	agac	ac	at	ccgg	cc	4020
160	tttcc	cc	ttt	gaga	at	gtt	gggt	cc	4080
162	aac	ggagg	gg	gg	gg	gg	gg	gg	4140
164	cac	gc	ccaa	c	at	cc	cc	cc	4200
166	cagg	ttgt	taa	at	tt	cc	cc	cc	4260
168	tgt	gtcc	cc	gg	gg	gg	gg	gg	4320
170	tat	gcaag	ca	gg	cc	tt	gg	tt	4380
172	cct	taat	aa	ac	cc	tt	gg	tt	4440
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177 <210> SEQ ID NO: 2

RAW SEQUENCE LISTING
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178 <211> LENGTH: 1373
179 <212> TYPE: PRT
180 <213> ORGANISM: Mus musculus
182 <400> SEQUENCE: 2
184 Met Lys Ser Gly Ser Gly Gly Ser Pro Thr Ser Leu Trp Gly Leu
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188 Val Phe Leu Ser Ala Ala Leu Ser Leu Trp Pro Thr Ser Gly Glu Ile
189 20 25 30
192 Cys Gly Pro Gly Ile Asp Ile Arg Asn Asp Tyr Gln Gln Leu Lys Arg
193 35 40 45
196 Leu Glu Asn Cys Thr Val Ile Glu Gly Phe Leu His Ile Leu Leu Ile
197 50 55 60
200 Ser Lys Ala Glu Asp Tyr Arg Ser Tyr Arg Phe Pro Lys Leu Thr Val
201 65 70 75 80
204 Ile Thr Glu Tyr Leu Leu Phe Arg Val Ala Gly Leu Glu Ser Leu
205 85 90 95
208 Gly Asp Leu Phe Pro Asn Leu Thr Val Ile Arg Gly Trp Lys Leu Phe
209 100 105 110
212 Tyr Asn Tyr Ala Leu Val Ile Phe Glu Met Thr Asn Leu Lys Asp Ile
213 115 120 125
216 Gly Leu Tyr Asn Leu Arg Asn Ile Thr Arg Gly Ala Ile Arg Ile Glu
217 130 135 140
220 Lys Asn Ala Asp Leu Cys Tyr Leu Ser Thr Ile Asp Trp Ser Leu Ile
221 145 150 155 160
224 Leu Asp Ala Val Ser Asn Asn Tyr Ile Val Gly Asn Lys Pro Pro Lys
225 165 170 175
228 Glu Cys Gly Asp Leu Cys Pro Gly Thr Leu Glu Lys Pro Met Cys
229 180 185 190
232 Glu Lys Thr Thr Ile Asn Asn Glu Tyr Asn Tyr Arg Cys Trp Thr Thr
233 195 200 205
236 Asn Arg Cys Gln Lys Met Cys Pro Ser Val Cys Gly Lys Arg Ala Cys
237 210 215 220
240 Thr Glu Asn Asn Glu Cys Cys His Pro Glu Cys Leu Gly Ser Cys His
241 225 230 235 240
244 Thr Pro Asp Asp Asn Thr Thr Cys Val Ala Cys Arg His Tyr Tyr Tyr
245 245 250 255
248 Lys Gly Val Cys Val Pro Ala Cys Pro Pro Gly Thr Tyr Arg Phe Glu
249 260 265 270
252 Gly Trp Arg Cys Val Asp Arg Asp Phe Cys Ala Asn Ile Pro Asn Ala
253 275 280 285
256 Glu Ser Ser Asp Ser Asp Gly Phe Val Ile His Asp Asp Glu Cys Met
257 290 295 300
260 Gln Glu Cys Pro Ser Gly Phe Ile Arg Asn Ser Thr Gln Ser Met Tyr
261 305 310 315 320
264 Cys Ile Pro Cys Glu Gly Pro Cys Pro Lys Val Cys Gly Asp Glu Glu
265 325 330 335
268 Lys Lys Thr Lys Thr Ile Asp Ser Val Thr Ser Ala Gln Met Leu Gln
269 340 345 350
272 Gly Cys Thr Ile Leu Lys Gly Asn Leu Leu Ile Asn Ile Arg Arg Gly

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PATENT APPLICATION: US/10/572,195

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Input Set : A:\PCT - Sequence listing for submission.txt1.TXT
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273	355	360	365
276	Asn Asn Ile Ala Ser Glu Leu Glu Asn Phe Met Gly Leu Ile Glu Val		
277	370	375	380
280	Val Thr Gly Tyr Val Lys Ile Arg His Ser His Ala Leu Val Ser Leu		
281	385	390	395
284	Ser Phe Leu Lys Asn Leu Arg Leu Ile Leu Gly Glu Glu Gln Leu Glu		400
285	405	410	415
288	Gly Asn Tyr Ser Phe Tyr Val Leu Asp Asn Gln Asn Leu Gln Gln Leu		
289	420	425	430
292	Trp Asp Trp Asn His Arg Asn Leu Thr Val Arg Ser Gly Lys Met Tyr		
293	435	440	445
296	Phe Ala Phe Asn Pro Lys Leu Cys Val Ser Glu Ile Tyr Arg Met Glu		
297	450	455	460
300	Glu Val Thr Gly Thr Lys Gly Arg Gln Ser Lys Gly Asp Ile Asn Thr		
301	465	470	475
304	Arg Asn Asn Gly Glu Arg Ala Ser Cys Glu Ser Asp Val Leu Arg Phe		
305	485	490	495
308	Thr Ser Thr Thr Trp Lys Asn Arg Ile Ile Ile Thr Trp His Arg		
309	500	505	510
312	Tyr Arg Pro Pro Asp Tyr Arg Asp Leu Ile Ser Phe Thr Val Tyr Tyr		
313	515	520	525
316	Lys Glu Ala Pro Phe Lys Asn Val Thr Glu Tyr Asp Gly Gln Asp Ala		
317	530	535	540
320	Cys Gly Ser Asn Ser Trp Asn Met Val Asp Val Asp Leu Pro Pro Asn		
321	545	550	555
324	Lys Glu Gly Glu Pro Gly Ile Leu Leu His Gly Leu Lys Pro Trp Thr		
325	565	570	575
328	Gln Tyr Ala Val Tyr Val Lys Ala Val Thr Leu Thr Met Val Glu Asn		
329	580	585	590
332	Asp His Ile Arg Gly Ala Lys Ser Glu Ile Leu Tyr Ile Arg Thr Asn		
333	595	600	605
336	Ala Ser Val Pro Ser Ile Pro Leu Asp Val Leu Ser Ala Ser Asn Ser		
337	610	615	620
340	Ser Ser Gln Leu Ile Val Lys Trp Asn Pro Pro Thr Leu Pro Asn Gly		
341	625	630	635
344	Asn Leu Ser Tyr Tyr Ile Val Arg Trp Gln Arg Gln Pro Gln Asp Gly		
345	645	650	655
348	Tyr Leu Tyr Arg His Asn Tyr Cys Ser Lys Asp Lys Ile Pro Ile Arg		
349	660	665	670
352	Lys Tyr Ala Asp Gly Thr Ile Asp Val Glu Glu Val Thr Glu Asn Pro		
353	675	680	685
356	Lys Thr Glu Val Cys Gly Gly Asp Lys Gly Pro Cys Cys Ala Cys Pro		
357	690	695	700
360	Lys Thr Glu Ala Glu Lys Gln Ala Glu Lys Glu Glu Ala Glu Tyr Arg		
361	705	710	715
364	Lys Val Phe Glu Asn Phe Leu His Asn Ser Ile Phe Val Pro Arg Pro		
365	725	730	735
368	Glu Arg Arg Arg Asp Val Met Gln Val Ala Asn Thr Thr Met Ser		
369	740	745	750

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/572,195

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Input Set : A:\PCT - Sequence listing for submission.txt1.TXT
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372 Ser Arg Ser Arg Asn Thr Thr Val Ala Asp Thr Tyr Asn Ile Thr Asp
373 755 760 765
376 Pro Glu Glu Phe Glu Thr Glu Tyr Pro Phe Phe Glu Ser Arg Val Asp
377 770 775 780
380 Asn Lys Glu Arg Thr Val Ile Ser Asn Leu Arg Pro Phe Thr Leu Tyr
381 785 790 795 800
384 Arg Ile Asp Ile His Ser Cys Asn His Glu Ala Glu Lys Leu Gly Cys
385 805 810 815
388 Ser Ala Ser Asn Phe Val Phe Ala Arg Thr Met Pro Ala Glu Gly Ala
389 820 825 830
392 Asp Asp Ile Pro Gly Pro Val Thr Trp Glu Pro Arg Pro Glu Asn Ser
393 835 840 845
396 Ile Phe Leu Lys Trp Pro Glu Pro Glu Asn Pro Asn Gly Leu Ile Leu
397 850 855 860
400 Met Tyr Glu Ile Lys Tyr Gly Ser Gln Val Glu Asp Gln Arg Glu Cys
401 865 870 875 880
404 Val Ser Arg Gln Glu Tyr Arg Lys Tyr Gly Gly Ala Lys Leu Asn Arg
405 885 890 895
408 Leu Asn Pro Gly Asn Tyr Thr Ala Arg Ile Gln Ala Thr Ser Leu Ser
409 900 905 910
412 Gly Asn Gly Ser Trp Thr Asp Pro Val Phe Phe Tyr Val Pro Ala Lys
413 915 920 925
416 Thr Thr Tyr Glu Asn Phe Met His Leu Ile Ile Ala Leu Pro Val Ala
417 930 935 940
420 Ile Leu Leu Ile Val Gly Gly Leu Val Ile Met Leu Tyr Val Phe His
421 945 950 955 960
424 Arg Lys Arg Asn Asn Ser Arg Leu Gly Asn Gly Val Leu Tyr Ala Ser
425 965 970 975
428 Val Asn Pro Glu Tyr Phe Ser Ala Ala Asp Val Tyr Val Pro Asp Glu
429 980 985 990
432 Trp Glu Val Ala Arg Glu Lys Ile Thr Met Asn Arg Glu Leu Gly Gln
433 995 1000 1005
436 Gly Ser Phe Gly Met Val Tyr Glu Gly Val Ala Lys Gly Val Val
437 1010 1015 1020
440 Lys Asp Glu Pro Glu Thr Arg Val Ala Ile Lys Thr Val Asn Glu
441 1025 1030 1035
444 Ala Ala Ser Met Arg Glu Arg Ile Glu Phe Leu Asn Glu Ala Ser
445 1040 1045 1050
448 Val Met Lys Glu Phe Asn Cys His His Val Val Arg Leu Leu Gly
449 1055 1060 1065
452 Val Val Ser Gln Gly Gln Pro Thr Leu Val Ile Met Glu Leu Met
453 1070 1075 1080
456 Thr Arg Gly Asp Leu Lys Ser Tyr Leu Arg Ser Leu Arg Pro Glu
457 1085 1090 1095
460 Val Glu Gln Asn Asn Leu Val Leu Ile Pro Pro Ser Leu Ser Lys
461 1100 1105 1110
464 Met Ile Gln Met Ala Gly Glu Ile Ala Asp Gly Met Ala Tyr Leu
465 1115 1120 1125
468 Asn Ala Asn Lys Phe Val His Arg Asp Leu Ala Ala Arg Asn Cys

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/06/2006
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 3177,3178

VERIFICATION SUMMARY DATE: 04/06/2006
PATENT APPLICATION: US/10/572,195 TIME: 10:54:18

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Output Set: N:\CRF4\04062006\J572195.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:6716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:3120